

Claims

1. A diabolo roller conveyor provided with rotation axles with diabolo rollers mounted thereon, each diabolo roller being divided into two diabolo roller halves by an imaginary dividing plane in which the rotation axle too extends, a locking element being provided having a locked position and a
5 releasing position, while each diabolo roller half is connected to the rotation axle via at least one weighing guide element such that in the releasing position this allows an independent movement of each diabolo roller half parallel to the imaginary plane and perpendicular to the rotation axle for the purpose of weighing an object located on the respective diabolo roller half and that in a
10 locked position, the two diabolo roller halves are intercoupled and rotatably drivable through rotation of the rotation axle.
2. A diabolo roller conveyor according to claim 1, wherein the weighing guide elements comprise at least one single pivot arm connected to, on the one
15 side, such one half and on the other side, to a rotation axle common for both halves.
3. A diabolo roller conveyor according to claim 2, wherein, when weighing, the pivot arm is horizontal.
4. A diabolo roller conveyor according to claim 1, 2 or 3, wherein, when
20 rotating, the two halves are locked with the aid of a locking element while the halves are centered.
5. A diabolo roller conveyor according to claim 4, wherein the locking element is a fitting element, comprising a central axle shaft which, upon locking, is slid over the rotation axle and is inserted into the halves, while a fitting end fits in matching locking cavity halves of matching halves, while
25 these halves are pressed together and locked in a mutually centered position.
6. A diabolo roller conveyor according to claim 5, wherein the fitting end comprises a truncated four-sided pyramid tapering towards the end.

7. A diabolo roller conveyor according to claim 5, wherein the fitting end comprises a truncated oval cone tapering towards the end.

8. A diabolo roller conveyor according to claim 5, 6 or 7, wherein the fitting element is held in locked position by a clamping spring pressing against
5 the axle shaft in the direction of the rotation axle.

9. An apparatus provided with a diabolo roller conveyor according to any one of the preceding claims, wherein the apparatus comprises a weighing cell over which the diabolo rollers, provided with supporting elements, are guided by the supporting elements, while the locking element of a respective
10 diabolo roller is in the releasing position when a diabolo roller is guided over the weighing cell, the locking element being in the locked position when rotation of the diabolo roller is required.